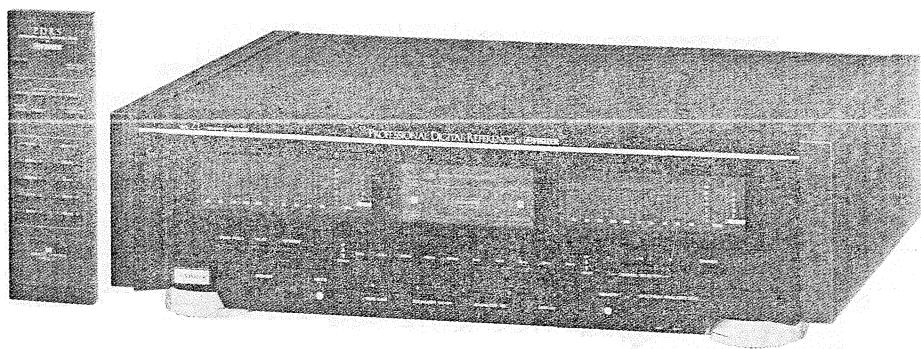




STEREO GRAPHIC EQUALIZER  
WITH REQ-Z1 WIRELESS  
REMOTE CONTROL

EQ-Z1

( EUROPE )



139 232 40 (EUROPE)  
139 232 41 (SWISS)

SPECIFICATIONS

Remote Control (REQ-Z1)	28-function, wireless remote control
Input Impedance	50k $\Omega$
Output Impedance	1k $\Omega$
T.H.D. (Flat Position)	
at 1V Output	0.007%
at 5V Output	0.007%
T.H.D. (Max Position)	
at 1V Output	0.03%
at 5V Output	0.03%
Gain (Flat Position)	< $\pm 0.2$ dB
Frequency Response	
20Hz - 20kHz	$\pm 0.2$ dB

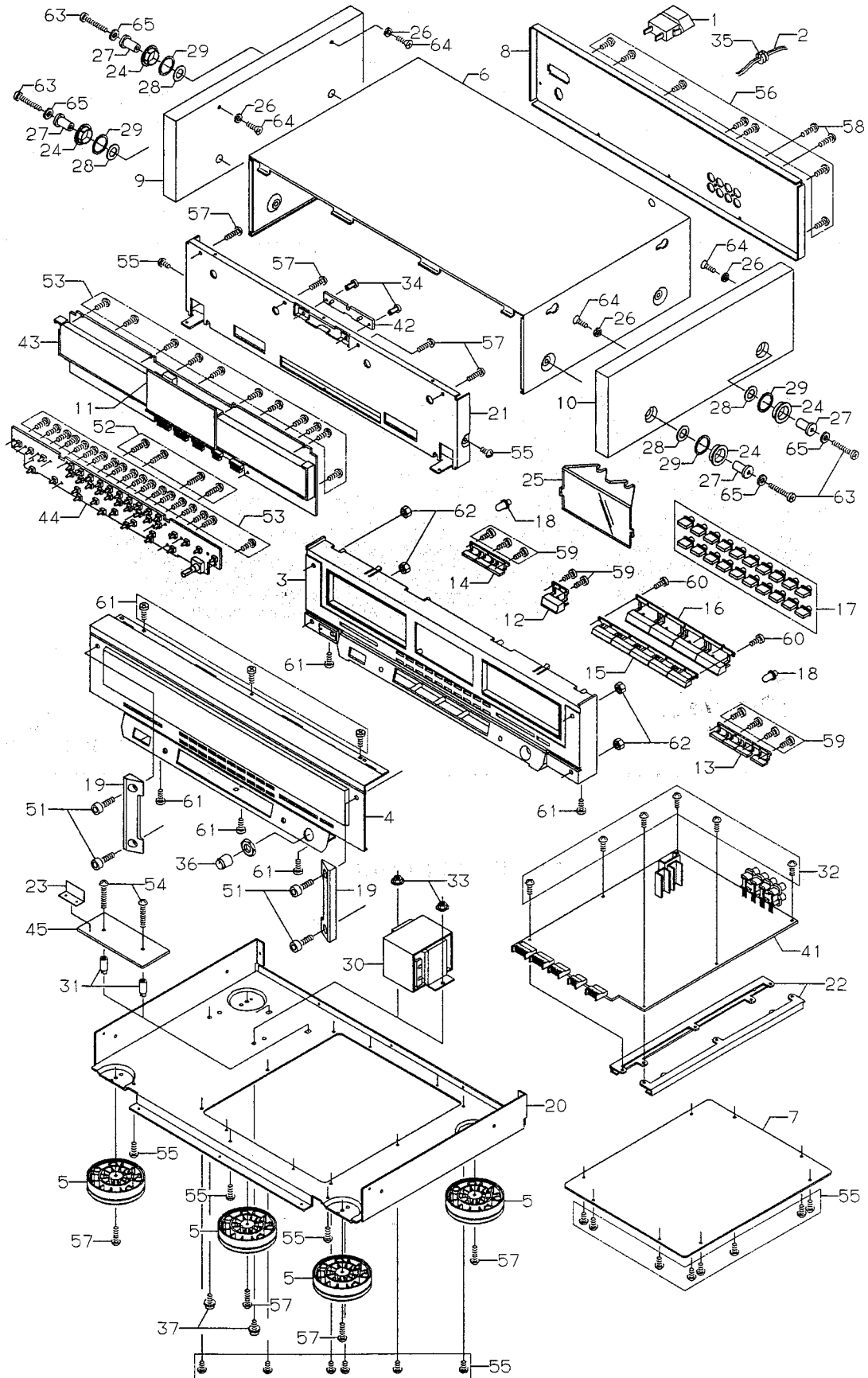
Tone Control Response	
Center of Frequency	$\pm 10\%$
63Hz	$\pm 10$ dB
125Hz	$\pm 10$ dB
250Hz	$\pm 10$ dB
500Hz	$\pm 10$ dB
1kHz	$\pm 10$ dB
2kHz	$\pm 10$ dB
4kHz	$\pm 10$ dB
8kHz	$\pm 10$ dB
16kHz	$\pm 10$ dB
S/N (IHF A, Reference 1V, Flat Position)	110dB
Crosstalk	
10Hz ~ 20kHz	60dB

GENERAL

Power Requirements	AC : 220V (50/60Hz)
AC Outlet	25Watts
Dimensions (WxHxD)	1
Weight (approx)	480 x 130 x 318 mm 6.3kg

- Specifications and design are subject to change without notice. -

# CABINET EXPLODED VIEW



# CABINET PARTS LIST

Ref. No.	Part No.	Description	Q'ty
<b>PACKAGE</b>			
	620 000 0024	Bag Polyethylene	1
	620 202 0723	Outer Carton	1
	620 203 4379	Outer Carton,EXP	1
	620 196 4844	Sheet,Poly	1
	620 195 3787	Pad,Bottom	1
	620 195 3794	Pad,Top	1
	620 062 2127	Rubber Band	1
<b>ACCESSORIES</b>			
	620 202 3205	Assy,Poly Cover	1
	620 196 9757	Cord	2
	620 202 3212	Instruction Manual	1
	620 057 8783	Bag Fan	1
	620 062 0543	Serial No. Sheet	1
	620 152 2624	Certificate Card	1
	620 203 8155	Remocon,REQ-Z1	1
<b>CABINET</b>			
	620 199 6418	Adhesive Sheet	10
	620 197 5765	Felt,Cushion-2	3
	620 203 1392	Label,Fuse,400X2	1
	620 125 8424	Wire Band	5
	620 152 7452	Serial No. Sheet	1
1	△ 620 017 1212	AC Socket	1
2	△ 620 023 7550	Power Cord	1
3	620 196 4837	Assy,Cabinet	1
4	620 202 1027	Assy,Panel,Front	1
5	620 201 8508	Assy,Foot (EUROPE)	4
5	620 195 9413	Assy,Foot (SWISS)	4
6	620 195 3886	Cover,Top	1
7	620 195 5385	Plate,Bottom	1
8	620 202 0693	Panel,Rear	1
9	620 201 7754	Panel,Side,Wood,Left (EUROPE)	1
9	620 195 3732	Panel,Side,Wood,Left (SWISS)	1
10	620 201 7761	Panel,Side,Wood,Right (EUROPE)	1
10	620 195 3749	Panel,Side,Wood,Right (SWISS)	1
11	620 195 6726	Window,FL	1
12	620 195 3503	Knob,Power	1
13	620 195 3510	Knob,Touch	1
14	620 195 6702	Knob,Touch,A	1
15	620 195 3534	Knob,Function Small	1
16	620 195 3541	Knob,Function Large	1
17	620 195 3480	Button	20
18	620 195 3497	Button,Small	2
19	620 195 1943	Handle	2
20	620 195 5408	Chassis	1
21	620 195 5415	Chassis,Front	1
22	620 195 6733	Mount-E,PCB	2
23	620 202 8347	Plate,Sever	1
24	620 201 7099	Cap,Wood	4
25	620 195 3572	Filter,Clear	1
26	620 195 3800	Spacer	4
27	620 201 7105	Spacer,Wood	4
28	620 201 9949	Spacer	4
29	620 203 7073	Cushion	4
30	△ 620 202 4240	Power Trans,SEV,20VA	1
31	620 050 4409	Mount P.C.B	2
32	620 051 3708	Screw Braz. HD. + M3X8	6
33	620 051 4798	NUT M4X13	2
34	620 191 2746	Rivet 3.5	2
35	620 053 2136	Bushing (MP4N-4)	1
36	620 189 1195	Knob Volume (Graphic EQ.)	1
37	620 123 0833	SCR Bind TAP-B + M4X10	2
41	620 202 4721	Assy,PCB,EQ. Control	1
42	620 195 7464	Assy,PCB,Edge Light	1
43	620 195 7471	Assy,PCB,FL LED Display	1
44	620 195 7495	Assy,PCB,Tact Switch	1
45	620 202 4790	Assy,PCB,Fuse	1
51	412 033 7404	SPECIAL SCREW	4
52	411 020 5300	SCR S-TPG BRZ 2.6X12	4
53	411 020 5706	SCR S-TPG BRZ 2.6X8	30
54	411 020 7007	SCR S-TPG BRZ 3X20	2
55	411 020 7502	SCR S-TPG BRZ 3X5	19
56	411 099 9704	SCR S-TPG BRZ 3X6	7
57	411 020 8004	SCR S-TPG BRZ 3X8	8
58	411 099 9803	SCR S-TPG BRZ 3X8	2

Ref. No.	Part No.	Description	Q'ty
59	411 021 0809	SCR S-TPG BIN 2X6	9
60	411 021 1202	SCR S-TPG BIN 2X8	2
61	411 021 6603	SCR S-TPG BIN 3X8	8
62	411 004 5906	NUT HEX 5	4
63	412 033 7602	SPECIAL SCREW	4
64	411 082 9605	SCR WOOD FLT 3.1X16	4
65	412 033 7909	SPECIAL WASHER	4

## NOTES:

- Parts order must contain Model Number, Part Number and Description.
- Ordering quantity of screws and resistors must be multiple of 10 pcs.

## PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  $\Delta$  in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with  $\Delta$ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

# P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,EQ. CONTROL				or	405 004 5004	TR 2SA608-G-NP	1
	620 202 4721	Assy,PCB,EQ. Control	1	TR310	405 004 5004	TR 2SA608-G-NP	1
	620 007 3349	Ceramic,OSC CSA4.00	1	DT12	407 119 0004	THYRISTOR TLP3503	1
	620 017 2721	Fuse Clip	1	DT13	407 119 0004	THYRISTOR TLP3503	1
	620 022 3508	Terminal Lug	4	D1	407 004 9105	DIODE DSF10C-BT	1
△	423 003 4101	FUSE 250V T0.4A [F1,F2]	1	D2	407 004 9105	DIODE DSF10C-BT	1
	411 020 7700	SCR S-TPG BRZ 3X6	2	D3	407 004 9105	DIODE DSF10C-BT	1
	620 196 3342	Heat Sink	3	D4	407 004 9105	DIODE DSF10C-BT	1
	620 196 4363	Jack,RCA,4P,Gold	2	D5	407 004 9105	DIODE DSF10C-BT	1
	620 031 4763	Wire Wrap Terminal	2	D6	407 004 9105	DIODE DSF10C-BT	1
	620 120 7064	Plate Heat Sink	8	D7	407 005 0309	DIODE DSF10C-BT	1
PC2	620 021 8405	Plug 8P	1	D8	407 050 5601	ZENER DIODE GZA27X	1
PC3	620 021 8337	Plug 6P	1	D9	407 050 6301	ZENER DIODE GZA5.6Z-BT	1
PC4	620 021 8320	Plug 5P	1	D10	407 049 7500	ZENER DIODE GZA6.2Z-BT	1
RB100	620 196 5377	Resistor 7X1M P2.54	1	D11	407 049 7500	ZENER DIODE GZA16Y	1
RB101	620 196 5377	Resistor 7X1M P2.54	1	D12	407 050 6806	ZENER DIODE GZA16Y	1
RB102	620 196 5384	Resistor 3X1M P2.54	1	D13	407 050 6806	ZENER DIODE GZA7.5X	1
RB103	620 196 5384	Resistor 3X1M P2.54	1	D14	407 005 3805	ZENER DIODE GZA7.5X	1
RB300	620 004 5674	Resistor 12X10K	1	D200	407 008 0405	DIODE DS442-BT	1
RB301	620 004 5513	Resistor 7X10K	1	D201	407 005 3805	DIODE GMB01-BT	1
RB302	620 004 5209	Resistor 4X10K J	1	D202	407 005 3805	DIODE DS442-BT	1
S1	620 196 2574	Connector-S,TKC-B10X-E1	1	D203	407 005 3805	DIODE DS442-BT	1
S2	620 196 2574	Connector-S,TKC-B10X-E1	1	D204	407 008 0405	DIODE DS442-BT	1
S3	620 196 4349	Connector-S,TKC-B08X-E1	1	D205	407 008 0405	DIODE GMB01-BT	1
S4	620 196 2550	Connector-S,TKC-B06X-E1	1	D206	407 008 0405	DIODE GMB01-BT	1
S5	620 196 4349	Connector-S,TKC-B08X-E1	1	D207	407 008 0405	DIODE GMB01-BT	1
IC100	409 088 3901	IC LC7520	1	D208	407 008 0405	DIODE GMB01-BT	1
IC101	409 088 3901	IC LC7520	1	D209	407 008 0405	DIODE GMB01-BT	1
IC102	409 018 5203	IC LA6462D	1	D210	407 008 0405	DIODE GMB01-BT	1
IC103	409 018 5203	IC LA6462D	1	D211	407 008 0405	DIODE GMB01-BT	1
IC104	409 018 5203	IC LA6462D	1	D212	407 008 0405	DIODE GMB01-BT	1
IC105	409 018 5203	IC LA6462D	1	D213	407 008 0405	DIODE GMB01-BT	1
IC106	409 018 5203	IC LA6462D	1	D214	407 008 0405	DIODE GMB01-BT	1
IC107	409 018 5203	IC LA6462D	1	D215	407 008 0405	DIODE GMB01-BT	1
IC108	409 018 5203	IC LA6462D	1	D216	407 008 0405	DIODE GMB01-BT	1
IC109	409 018 5203	IC LA6462D	1	D217	407 005 3805	DIODE DS442-BT	1
IC110	409 018 5203	IC LA6462D	1	D218	407 008 0405	DIODE GMB01-BT	1
IC111	409 018 5203	IC LA6462D	1	D219	407 008 0405	DIODE GMB01-BT	1
IC112	409 018 4503	IC LA6458DS	1	D220	407 008 0405	DIODE GMB01-BT	1
IC113	409 018 5203	IC LA6462D	1	D221	407 008 0405	DIODE GMB01-BT	1
IC114	409 018 4503	IC LA6458DS	1	D300	407 012 8503	DIODE 1SS53	1
IC115	409 109 5204	IC LC7822	1	D301	407 008 0405	DIODE GMB01-BT	1
IC200	409 143 7004	IC BA14741	1	D302	407 008 0405	DIODE GMB01-BT	1
IC201	409 143 7004	IC BA14741	1	C1	404 012 7000	CERAMIC 0.01U P 500V	1
IC202	409 143 7004	IC BA14741	1	C2	404 012 7000	CERAMIC 0.01U P 500V	1
IC203	409 143 7004	IC BA14741	1	C3	404 012 7000	CERAMIC 0.01U P 500V	1
IC204	409 018 4503	IC LA6458DS	1	C4	404 012 7000	CERAMIC 0.01U P 500V	1
IC205	409 143 7004	IC BA14741	1	C5	403 176 0704	ELECT 1000U M 35V	1
IC206	409 018 5104	IC LA6458SS	1	C6	403 176 0704	ELECT 1000U M 35V	1
IC300	409 197 4103	IC LC6520C-4134	1	C7	403 121 0803	ELECT 220U M 63V	1
TR1	405 035 7206	TR 2SD1913-S	1	C8	403 053 7703	ELECT 330U M 35V	1
TR2	405 052 8101	TR 2SB1274-S	1	C9	403 054 1304	ELECT 47U M 35V	1
TR3	405 035 7206	TR 2SD1913-S	1	C11	403 176 0803	ELECT 47U M 35V	1
TR4	405 017 9600	TR 2SC3330-T-AC	1	C12	403 176 0506	ELECT 100U M 25V	1
or	405 017 9501	TR 2SA1317-T	1	C13	403 176 0803	ELECT 47U M 35V	1
TR5	405 003 5302	TR 2SA1317-S	1	C14	403 176 0506	ELECT 100U M 25V	1
or	405 003 5203	TR 2SB1274-S	1	C15	403 039 7901	ELECT 100U M 10V	1
TR6	405 052 8101	TR 2SC536-F-NP-AA	1	C17	403 176 0407	ELECT 220U M 16V	1
TR7	405 019 2708	TR 2SC536-G-NP-AA	1	C18	403 176 0407	ELECT 220U M 16V	1
or	405 019 3804	TR 2SA608-F-NP-AA	1	C19	403 176 0001	ELECT 100U M 16V	1
TR8	405 004 4502	TR 2SA608-G-NP	1	C20	403 176 0506	ELECT 100U M 25V	1
or	405 004 5004	TR 2SA608-F-NP-AA	1	C21	403 176 0308	ELECT 100U M 6.3V	1
TR9	405 004 4502	TR 2SA608-G-NP	1	C22	403 176 0407	ELECT 220U M 16V	1
or	405 004 5004	TR 2SA608-G-NP	1	C23	403 176 0407	ELECT 220U M 16V	1
TR100	405 039 5802	TR 2SC3792	1	C24	403 176 0001	ELECT 100U M 16V	1
TR101	405 039 5802	TR 2SC3792	1	C25	403 176 0506	ELECT 100U M 16V	1
TR301	405 004 4502	TR 2SA608-F-NP-AA	1	C26	403 176 0308	ELECT 100U M 25V	1
or	405 004 5004	TR 2SA608-G-NP	1	C27	403 176 0001	ELECT 100U M 6.3V	1
TR302	405 004 5004	TR 2SA608-G-NP	1	C28	403 176 0001	ELECT 100U M 16V	1
or	405 004 4502	TR 2SA608-F-NP-AA	1	C29	403 176 0001	ELECT 100U M 16V	1
TR303	405 019 2708	TR 2SC536-F-NP-AA	1	C30	403 176 0001	ELECT 100U M 16V	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	C31	403 176 0407	ELECT 220U M 16V	1
TR304	405 019 2708	TR 2SC536-F-NP-AA	1	C32	403 176 0407	ELECT 220U M 16V	1
or	405 019 3804	TR 2SC536-G-NP-AA	1	C33	403 044 0201	ELECT 47U M 16V	1
TR305	405 079 9105	TR 2SC3916	1	C34	403 044 0201	ELECT 47U M 16V	1
TR306	405 079 9105	TR 2SC3916	1	C35	403 042 0302	ELECT 10U M 16V	1
TR307	405 079 9105	TR 2SC3916	1	C39	403 069 8404	CERAMIC 0.01U Z 50V	1
TR308	405 079 9105	TR 2SC3916	1	C40	403 049 1609	ELECT 1U M 50V	1
TR309	405 004 4502	TR 2SA608-F-NP-AA	1	C100	403 067 8505	MT-COMPO 0.82U J 50V	1

# P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
C101	403 067 8505	MT-COMPO 0.82U J 50V	1	C218	403 062 4809	POLYESTER 5600P J 50V	1
C102	403 067 6501	MT-COMPO 0.18U J 50V	1	C219	403 062 4809	POLYESTER 5600P J 50V	1
C103	403 067 6501	MT-COMPO 0.18U J 50V	1	C220	403 137 8206	POLYESTER 2700P J 50V	1
C104	403 067 7508	MT-COMPO 0.39U J 50V	1	C221	403 137 8206	POLYESTER 2700P J 50V	1
C105	403 067 7508	MT-COMPO 0.39U J 50V	1	C222	403 137 8206	POLYESTER 2700P J 50V	1
C106	403 067 5900	MT-COMPO 0.12U J 50V	1	C223	403 137 8206	POLYESTER 2700P J 50V	1
C107	403 067 5900	MT-COMPO 0.12U J 50V	1	C224	403 137 8206	POLYESTER 2700P J 50V	1
C108	403 067 6709	MT-COMPO 0.22U J 50V	1	C225	403 137 8206	POLYESTER 2700P J 50V	1
C109	403 067 6709	MT-COMPO 0.22U J 50V	1	C226	403 137 8206	POLYESTER 2700P J 50V	1
C110	403 062 6605	POLYESTER 0.056U J 50V	1	C227	403 137 8206	POLYESTER 2700P J 50V	1
C111	403 062 6605	POLYESTER 0.056U J 50V	1	C228	403 062 9705	POLYESTER 6800P J 50V	1
C112	403 067 5603	MT-COMPO 0.1U J 50V	1	C229	403 062 9705	POLYESTER 6800P J 50V	1
C113	403 067 5603	MT-COMPO 0.1U J 50V	1	C230	403 062 9705	POLYESTER 6800P J 50V	1
C114	403 060 2005	POLYESTER 0.027U J 50V	1	C231	403 062 9705	POLYESTER 6800P J 50V	1
C115	403 060 2005	POLYESTER 0.027U J 50V	1	C232	403 062 9705	POLYESTER 6800P J 50V	1
C116	403 062 6605	POLYESTER 0.056U J 50V	1	C233	403 062 9705	POLYESTER 6800P J 50V	1
C117	403 062 6605	POLYESTER 0.056U J 50V	1	C234	403 062 9705	POLYESTER 6800P J 50V	1
C118	403 058 2901	POLYESTER 0.015U J 50V	1	C235	403 062 9705	POLYESTER 6800P J 50V	1
C119	403 058 2901	POLYESTER 0.015U J 50V	1	C236	403 061 1908	POLYESTER 3900P J 50V	1
C120	403 060 2005	POLYESTER 0.027U J 50V	1	C237	403 061 1908	POLYESTER 3900P J 50V	1
C121	403 060 2005	POLYESTER 0.027U J 50V	1	C238	403 061 1908	POLYESTER 3900P J 50V	1
C122	403 063 5409	POLYESTER 8200P J 50V	1	C239	403 061 1908	POLYESTER 3900P J 50V	1
C123	403 063 5409	POLYESTER 8200P J 50V	1	C240	403 051 2007	ELECT 4.7U M 50V	1
C124	403 057 7204	POLYESTER 0.012U J 50V	1	C241	403 051 2007	ELECT 4.7U M 50V	1
C125	403 057 7204	POLYESTER 0.012U J 50V	1	C242	403 050 1209	ELECT 2.2U M 50V	1
C126	403 060 5808	POLYESTER 3300P J 50V	1	C243	403 050 1209	ELECT 2.2U M 50V	1
C127	403 060 5808	POLYESTER 3300P J 50V	1	C244	403 050 1209	ELECT 2.2U M 50V	1
C128	403 062 9705	POLYESTER 6800P J 50V	1	C245	403 050 1209	ELECT 2.2U M 50V	1
C129	403 062 9705	POLYESTER 6800P J 50V	1	C246	403 050 1209	ELECT 2.2U M 50V	1
C130	403 058 7906	POLYESTER 1800P J 50V	1	C247	403 050 1209	ELECT 2.2U M 50V	1
C131	403 058 7906	POLYESTER 1800P J 50V	1	C248	403 050 1209	ELECT 2.2U M 50V	1
C132	403 060 5808	POLYESTER 3300P J 50V	1	C249	403 050 1209	ELECT 2.2U M 50V	1
C133	403 060 5808	POLYESTER 3300P J 50V	1	C250	403 050 1209	ELECT 2.2U M 50V	1
C134	403 082 5107	POLYPRO 820P J 100V	1	C251	403 050 1209	ELECT 2.2U M 50V	1
C135	403 082 5107	POLYPRO 820P J 100V	1	C252	403 050 1209	ELECT 2.2U M 50V	1
C136	403 081 2602	POLYPRO 2200P J 100V	1	C253	403 050 1209	ELECT 2.2U M 50V	1
C137	403 081 2602	POLYPRO 2200P J 100V	1	C254	403 050 1209	ELECT 2.2U M 50V	1
C138	403 081 8604	POLYPRO 390P J 100V	1	C255	403 050 1209	ELECT 2.2U M 50V	1
C139	403 081 8604	POLYPRO 390P J 100V	1	C256	403 050 1209	ELECT 2.2U M 50V	1
C140	403 018 8509	CERAMIC 220P K 50V	1	C257	403 050 1209	ELECT 2.2U M 50V	1
C141	403 018 8509	CERAMIC 220P K 50V	1	C258	403 050 1209	ELECT 2.2U M 50V	1
C142	403 018 8509	CERAMIC 220P K 50V	1	C259	403 050 1209	ELECT 2.2U M 50V	1
C143	403 018 8509	CERAMIC 220P K 50V	1	C260	403 050 1209	ELECT 2.2U M 50V	1
C144	403 018 8509	CERAMIC 220P K 50V	1	C261	403 050 1209	ELECT 2.2U M 50V	1
C145	403 018 8509	CERAMIC 220P K 50V	1	C262	403 049 3900	ELECT 1.5U M 50V	1
C146	403 018 8509	CERAMIC 220P K 50V	1	C263	403 049 3900	ELECT 1.5U M 50V	1
C147	403 018 8509	CERAMIC 220P K 50V	1	C300	404 032 2207	ELECT 2200U M 10V	1
C148	403 177 1106	ELECT 10U M 16V	1	C301	403 038 2402	ELECT 100U M 6.3V	1
C149	403 177 1106	ELECT 10U M 16V	1	C302	403 069 8404	CERAMIC 0.01U Z 50V	1
C152	403 177 1106	ELECT 10U M 16V	1	C303	403 040 8508	ELECT 33U M 10V	1
C153	403 177 1106	ELECT 10U M 16V	1	C305	403 038 2402	ELECT 100U M 6.3V	1
C154	403 177 1106	ELECT 10U M 16V	1	C306	403 049 1609	ELECT 1U M 50V	1
C155	403 177 1106	ELECT 10U M 16V	1	C307	403 047 9607	ELECT 0.1U M 50V	1
C156	403 177 1106	ELECT 10U M 16V	1	C309	403 022 5907	CERAMIC 33P J 50V	1
C157	403 177 1106	ELECT 10U M 16V	1	C310	403 022 5907	CERAMIC 33P J 50V	1
C158	403 033 7303	CERAMIC 82P K 50V	1	C311	403 009 8105	CERAMIC 100P K 50V	1
C159	403 033 7303	CERAMIC 82P K 50V	1	C330	403 010 1805	CERAMIC 1000P K 50V	1
C160	403 033 7303	CERAMIC 82P K 50V	1	R2	401 063 4705	OXIDE-MT 8.2 JB 1W	1
C161	403 033 7303	CERAMIC 82P K 50V	1	R3	401 066 5105	OXIDE-MT 22 JB 2W	1
C162	403 009 8105	CERAMIC 100P K 50V	1	R4	401 066 5105	OXIDE-MT 22 JB 2W	1
C163	403 009 8105	CERAMIC 100P K 50V	1	R5	401 065 9500	OXIDE-MT 18 JB 2W	1
C200	403 096 8507	POLYESTER 0.082U J 50V	1	R6	401 065 9500	OXIDE-MT 18 JB 2W	1
C201	403 096 8507	POLYESTER 0.082U J 50V	1	R7	401 016 2604	CARBON 220 JA 1/4W	1
C202	403 096 8507	POLYESTER 0.082U J 50V	1	R8	401 016 2604	CARBON 220 JA 1/4W	1
C203	403 096 8507	POLYESTER 0.082U J 50V	1	R9	401 016 2604	CARBON 220 JA 1/4W	1
C204	403 061 3704	POLYESTER 0.039U J 50V	1	R10	401 016 2604	CARBON 220 JA 1/4W	1
C205	403 061 3704	POLYESTER 0.039U J 50V	1	R11	401 012 5708	CARBON 1K JA 1/4W	1
C206	403 061 3704	POLYESTER 0.039U J 50V	1	R12	401 054 8002	OXIDE-MT 100 JB 1/2W	1
C207	403 061 3704	POLYESTER 0.039U J 50V	1	R13	401 016 3809	CARBON 2.2K JA 1/4W	1
C208	403 059 5604	POLYESTER 0.022U J 50V	1	R14	401 024 7707	CARBON 100K JA 1/6W	1
C209	403 059 5604	POLYESTER 0.022U J 50V	1	R15	401 024 7707	CARBON 100K JA 1/6W	1
C210	403 059 5604	POLYESTER 0.022U J 50V	1	R17	401 012 4503	CARBON 100 JA 1/4W	1
C211	403 059 5604	POLYESTER 0.022U J 50V	1	R18	401 012 4503	CARBON 100 JA 1/4W	1
C212	403 057 0106	POLYESTER 0.01U J 50V	1	R19	401 016 2604	CARBON 220 JA 1/4W	1
C213	403 057 0106	POLYESTER 0.01U J 50V	1	R20	401 016 2604	CARBON 220 JA 1/4W	1
C214	403 057 0106	POLYESTER 0.01U J 50V	1	R21	401 012 4503	CARBON 100 JA 1/4W	1
C215	403 057 0106	POLYESTER 0.01U J 50V	1	R22	401 012 4503	CARBON 100 JA 1/4W	1
C216	403 062 4809	POLYESTER 5600P J 50V	1	R23	401 016 2604	CARBON 220 JA 1/4W	1
C217	403 062 4809	POLYESTER 5600P J 50V	1	R24	401 016 2604	CARBON 220 JA 1/4W	1

# P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty	
R25	401 017 0807	CARBON	270 JA 1/4W	1	R170	401 025 8703	CARBON 220K JA 1/6W	1
R26	401 017 0807	CARBON	270 JA 1/4W	1	R171	401 025 8703	CARBON 220K JA 1/6W	1
R27	401 014 2903	CARBON	150 JA 1/4W	1	R172	401 025 8703	CARBON 220K JA 1/6W	1
R28	401 014 2903	CARBON	150 JA 1/4W	1	R173	401 025 8703	CARBON 220K JA 1/6W	1
R29	401 013 4205	CARBON	120 JA 1/4W	1	R174	401 024 9701	CARBON 12K JA 1/6W	1
R30	401 013 4205	CARBON	120 JA 1/4W	1	R175	401 024 9701	CARBON 12K JA 1/6W	1
R31	401 022 1905	CARBON	680 JA 1/4W	1	R176	401 012 4503	CARBON 100 JA 1/4W	1
R32	401 022 1905	CARBON	680 JA 1/4W	1	R177	401 012 4503	CARBON 100 JA 1/4W	1
R35	401 016 2604	CARBON	220 JA 1/4W	1	R178	401 025 8703	CARBON 220K JA 1/6W	1
R36	401 025 7409	CARBON	220 JA 1/6W	1	R179	401 025 8703	CARBON 220K JA 1/6W	1
R37	401 025 4200	CARBON	1.8K JA 1/6W	1	R180	401 024 7400	CARBON 10K JA 1/6W	1
R38	401 025 7805	CARBON	2.2K JA 1/6W	1	R181	401 024 7400	CARBON 10K JA 1/6W	1
R39	401 025 4200	CARBON	1.8K JA 1/6W	1	R182	401 025 8703	CARBON 220K JA 1/6W	1
R40	401 025 7805	CARBON	2.2K JA 1/6W	1	R183	401 025 8703	CARBON 220K JA 1/6W	1
R43	401 024 7707	CARBON	100K JA 1/6W	1	R184	401 026 9303	CARBON 47 JA 1/6W	1
R100	401 027 8305	CARBON	820 JA 1/6W	1	R185	401 026 9303	CARBON 47 JA 1/6W	1
R101	401 027 8305	CARBON	820 JA 1/6W	1	R186	401 025 7805	CARBON 2.2K JA 1/6W	1
R102	401 025 6709	CARBON	200K JA 1/6W	1	R187	401 025 7805	CARBON 2.2K JA 1/6W	1
R103	401 025 6709	CARBON	200K JA 1/6W	1	R200	401 024 7707	CARBON 100K JA 1/6W	1
R104	401 027 8305	CARBON	820 JA 1/6W	1	R201	401 024 7707	CARBON 100K JA 1/6W	1
R105	401 027 8305	CARBON	820 JA 1/6W	1	R202	401 026 7002	CARBON 3.9K JA 1/6W	1
R106	401 025 3500	CARBON	160K JA 1/6W	1	R203	401 026 7002	CARBON 3.9K JA 1/6W	1
R107	401 025 3500	CARBON	160K JA 1/6W	1	R204	401 024 8001	CARBON 1M JA 1/6W	1
R108	401 027 8305	CARBON	820 JA 1/6W	1	R205	401 024 8001	CARBON 1M JA 1/6W	1
R109	401 027 8305	CARBON	820 JA 1/6W	1	R206	401 025 7409	CARBON 220 JA 1/6W	1
R110	401 025 3500	CARBON	160K JA 1/6W	1	R207	401 016 2604	CARBON 220 JA 1/4W	1
R111	401 025 3500	CARBON	160K JA 1/6W	1	R208	401 012 8105	CARBON 100K JA 1/4W	1
R112	401 027 8305	CARBON	820 JA 1/6W	1	R209	401 024 7707	CARBON 100K JA 1/6W	1
R113	401 027 8305	CARBON	820 JA 1/6W	1	R210	401 026 7002	CARBON 3.9K JA 1/6W	1
R114	401 025 4903	CARBON	180K JA 1/6W	1	R211	401 026 7002	CARBON 3.9K JA 1/6W	1
R115	401 025 4903	CARBON	180K JA 1/6W	1	R212	401 024 8001	CARBON 1M JA 1/6W	1
R116	401 027 8305	CARBON	820 JA 1/6W	1	R213	401 024 8001	CARBON 1M JA 1/6W	1
R117	401 027 8305	CARBON	820 JA 1/6W	1	R214	401 025 7409	CARBON 220 JA 1/6W	1
R118	401 025 2305	CARBON	150K JA 1/6W	1	R215	401 016 2604	CARBON 220 JA 1/4W	1
R119	401 025 2305	CARBON	150K JA 1/6W	1	R216	401 024 7707	CARBON 100K JA 1/6W	1
R120	401 027 8305	CARBON	820 JA 1/6W	1	R217	401 024 7707	CARBON 100K JA 1/6W	1
R121	401 027 8305	CARBON	820 JA 1/6W	1	R218	401 026 7002	CARBON 3.9K JA 1/6W	1
R122	401 025 0905	CARBON	130K JA 1/6W	1	R219	401 026 7002	CARBON 3.9K JA 1/6W	1
R123	401 025 0905	CARBON	130K JA 1/6W	1	R220	401 024 8001	CARBON 1M JA 1/6W	1
R124	401 027 8305	CARBON	820 JA 1/6W	1	R221	401 024 8001	CARBON 1M JA 1/6W	1
R125	401 027 8305	CARBON	820 JA 1/6W	1	R222	401 025 7409	CARBON 220 JA 1/6W	1
R126	401 025 4903	CARBON	180K JA 1/6W	1	R223	401 025 7409	CARBON 220 JA 1/6W	1
R127	401 025 4903	CARBON	180K JA 1/6W	1	R224	401 024 7707	CARBON 100K JA 1/6W	1
R128	401 027 8305	CARBON	820 JA 1/6W	1	R225	401 024 7707	CARBON 100K JA 1/6W	1
R129	401 027 8305	CARBON	820 JA 1/6W	1	R226	401 026 7002	CARBON 3.9K JA 1/6W	1
R130	401 025 3500	CARBON	160K JA 1/6W	1	R227	401 026 7002	CARBON 3.9K JA 1/6W	1
R131	401 025 3500	CARBON	160K JA 1/6W	1	R228	401 024 8001	CARBON 1M JA 1/6W	1
R132	401 027 8305	CARBON	820 JA 1/6W	1	R229	401 024 8001	CARBON 1M JA 1/6W	1
R133	401 027 8305	CARBON	820 JA 1/6W	1	R230	401 016 2604	CARBON 220 JA 1/4W	1
R134	401 025 4903	CARBON	180K JA 1/6W	1	R231	401 025 7409	CARBON 220 JA 1/6W	1
R135	401 025 4903	CARBON	180K JA 1/6W	1	R232	401 024 7707	CARBON 100K JA 1/6W	1
R136	401 027 8305	CARBON	820 JA 1/6W	1	R233	401 024 7707	CARBON 100K JA 1/6W	1
R137	401 027 8305	CARBON	820 JA 1/6W	1	R234	401 026 4308	CARBON 3.3K JA 1/6W	1
R138	401 025 0004	CARBON	120K JA 1/6W	1	R235	401 026 4308	CARBON 3.3K JA 1/6W	1
R139	401 025 0004	CARBON	120K JA 1/6W	1	R236	401 024 8001	CARBON 1M JA 1/6W	1
R146	401 024 7004	CARBON	1K JA 1/6W	1	R237	401 024 8001	CARBON 1M JA 1/6W	1
R147	401 024 7004	CARBON	1K JA 1/6W	1	R238	401 016 2604	CARBON 220 JA 1/4W	1
R148	401 024 7004	CARBON	1K JA 1/6W	1	R239	401 025 7409	CARBON 220 JA 1/6W	1
R149	401 024 7004	CARBON	1K JA 1/6W	1	R240	401 024 7707	CARBON 100K JA 1/6W	1
R150	401 024 7004	CARBON	1K JA 1/6W	1	R241	401 024 7707	CARBON 100K JA 1/6W	1
R151	401 024 7004	CARBON	1K JA 1/6W	1	R242	401 026 4308	CARBON 3.3K JA 1/6W	1
R152	401 024 7004	CARBON	1K JA 1/6W	1	R243	401 026 4308	CARBON 3.3K JA 1/6W	1
R153	401 024 7004	CARBON	1K JA 1/6W	1	R244	401 024 8001	CARBON 1M JA 1/6W	1
R154	401 025 8703	CARBON	220K JA 1/6W	1	R245	401 024 8001	CARBON 1M JA 1/6W	1
R155	401 025 8703	CARBON	220K JA 1/6W	1	R246	401 025 7409	CARBON 220 JA 1/6W	1
R156	401 025 8703	CARBON	220K JA 1/6W	1	R247	401 025 7409	CARBON 220 JA 1/6W	1
R157	401 025 8703	CARBON	220K JA 1/6W	1	R248	401 027 0309	CARBON 47K JA 1/6W	1
R158	401 025 8703	CARBON	220K JA 1/6W	1	R249	401 027 0309	CARBON 47K JA 1/6W	1
R159	401 025 8703	CARBON	220K JA 1/6W	1	R250	401 025 4200	CARBON 1.8K JA 1/6W	1
R160	401 025 8703	CARBON	220K JA 1/6W	1	R251	401 025 4200	CARBON 1.8K JA 1/6W	1
R161	401 025 8703	CARBON	220K JA 1/6W	1	R252	401 027 0507	CARBON 470K JA 1/6W	1
R162	401 024 7004	CARBON	1K JA 1/6W	1	R253	401 027 0507	CARBON 470K JA 1/6W	1
R163	401 012 5708	CARBON	1K JA 1/4W	1	R254	401 025 7409	CARBON 220 JA 1/6W	1
R164	401 012 5708	CARBON	1K JA 1/4W	1	R255	401 025 7409	CARBON 220 JA 1/6W	1
R165	401 012 5708	CARBON	1K JA 1/4W	1	R256	401 024 7400	CARBON 10K JA 1/6W	1
R166	401 025 8703	CARBON	220K JA 1/6W	1	R257	401 024 7400	CARBON 10K JA 1/6W	1
R167	401 025 8703	CARBON	220K JA 1/6W	1	R258	401 026 3905	CARBON 330 JA 1/6W	1
R168	401 024 9701	CARBON	12K JA 1/6W	1	R259	401 026 3905	CARBON 330 JA 1/6W	1
R169	401 024 9701	CARBON	12K JA 1/6W	1	R260	401 024 7707	CARBON 100K JA 1/6W	1

# P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
R261	401 024 7707	CARBON 100K JA 1/6W	1	RB505	620 004 5605	Resistor 8X100K J	1
R262	401 025 7409	CARBON 220 JA 1/6W	1	RB506	620 004 5704	Resistor 13X100K	1
R263	401 025 7409	CARBON 220 JA 1/6W	1	RB507	620 190 4079	Resistor 6X100K	1
R264	401 026 9907	CARBON 4.7K JA 1/6W	1	RB508	620 190 4079	Resistor 6X100K	1
R265	401 026 9907	CARBON 4.7K JA 1/6W	1	IC500	409 088 5806	IC LC7565	1
R266	401 025 3807	CARBON 180 JA 1/6W	1	IC501	409 088 5806	IC LC7565	1
R267	401 025 3807	CARBON 180 JA 1/6W	1	IC502	409 088 5806	IC LC7565	1
R268	401 027 0309	CARBON 47K JA 1/6W	1	IC503	409 050 8309	IC TC4011BP	1
R269	401 027 0309	CARBON 47K JA 1/6W	1	IC504	409 050 9009	IC TC4013BP	1
R270	401 016 2604	CARBON 220 JA 1/4W	1	TR500	405 017 9501	TR 2SC3330-S-AC	1
R271	401 025 7409	CARBON 220 JA 1/6W	1	or	405 017 9600	TR 2SC3330-T-AC	1
R272	401 026 7002	CARBON 3.9K JA 1/6W	1	TR501	405 017 9501	TR 2SC3330-S-AC	1
R273	401 026 7002	CARBON 3.9K JA 1/6W	1	or	405 017 9600	TR 2SC3330-T-AC	1
R274	401 025 1308	CARBON 150 JA 1/6W	1	TR502	405 003 5203	TR 2SA1317-S	1
R275	401 025 1308	CARBON 150 JA 1/6W	1	or	405 003 5302	TR 2SA1317-T	1
R276	401 026 7408	CARBON 39K JA 1/6W	1	TR503	405 003 5203	TR 2SA1317-S	1
R277	401 026 7408	CARBON 39K JA 1/6W	1	or	405 003 5302	TR 2SA1317-T	1
R278	401 016 2604	CARBON 220 JA 1/4W	1		407 088 6601	SENSOR BX-1407	1
R279	401 025 7409	CARBON 220 JA 1/6W	1	D500	407 008 0405	DIODE GMB01-BT	1
R280	401 025 1902	CARBON 15K JA 1/6W	1	D501	407 005 3805	DIODE DS442-BT	1
R281	401 025 1902	CARBON 15K JA 1/6W	1	D502	407 062 7204	LED SEL2213C	1
R282	401 025 8208	CARBON 22K JA 1/6W	1	D503	407 062 7204	LED SEL2213C	1
R283	401 025 8208	CARBON 22K JA 1/6W	1	D504	407 062 7204	LED SEL2213C	1
R284	401 025 7409	CARBON 220 JA 1/6W	1	D505	407 062 7204	LED SEL2213C	1
R285	401 025 7409	CARBON 220 JA 1/6W	1	D506	407 062 7204	LED SEL2213C	1
R300	401 026 3905	CARBON 330 JA 1/6W	1	D507	407 062 7204	LED SEL2213C	1
R301	401 027 5205	CARBON 680 JA 1/6W	1	D508	407 062 7303	LED SEL2413E	1
R302	401 018 2800	CARBON 330 JA 1/4W	1	D509	407 062 7303	LED SEL2413E	1
R303	401 022 1905	CARBON 680 JA 1/4W	1	D510	407 062 9109	LED SLB-55DU3	1
R304	401 022 1905	CARBON 680 JA 1/4W	1	D511	407 062 9109	LED SLB-55DU3	1
R305	401 022 1905	CARBON 680 JA 1/4W	1	D512	407 062 9109	LED SLB-55DU3	1
R306	401 022 1905	CARBON 680 JA 1/4W	1	D513	407 062 9109	LED SLB-55DU3	1
R307	401 022 1905	CARBON 680 JA 1/4W	1	D514	407 062 9109	LED SLB-55DU3	1
R308	401 022 1905	CARBON 680 JA 1/4W	1	D515	407 062 9109	LED SLB-55DU3	1
R309	401 025 7805	CARBON 2.2K JA 1/6W	1	C500	403 038 2303	ELECT 100U M 6.3V	1
R311	401 027 3003	CARBON 56K JA 1/6W	1	C501	403 038 2303	ELECT 100U M 6.3V	1
R312	401 027 0507	CARBON 470K JA 1/6W	1	C502	403 001 1906	CERAMIC 0.01U M 16V	1
R313	401 024 6700	CARBON 100 JA 1/6W	1	C503	403 001 1906	CERAMIC 0.01U M 16V	1
R314	401 024 7400	CARBON 10K JA 1/6W	1	C504	403 040 8508	ELECT 33U M 10V	1
R315	401 020 0801	CARBON 470 JA 1/4W	1	C505	403 040 8805	ELECT 33U M 10V	1
R316	401 024 7400	CARBON 10K JA 1/6W	1	C506	403 040 8508	ELECT 33U M 10V	1
R317	401 026 7408	CARBON 39K JA 1/6W	1	C507	403 040 8805	ELECT 33U M 10V	1
R318	401 024 7707	CARBON 100K JA 1/6W	1	C508	403 058 1300	POLYESTER 1500P K 50V	1
R319	401 024 7400	CARBON 10K JA 1/6W	1	C509	403 058 1300	POLYESTER 1500P K 50V	1
R321	401 012 7009	CARBON 10K JA 1/4W	1	C510	403 068 9402	CERAMIC 100P K 50V	1
R322	401 012 8105	CARBON 100K JA 1/4W	1	C511	403 068 9402	CERAMIC 100P K 50V	1
R323	401 016 3809	CARBON 2.2K JA 1/4W	1	C512	403 038 2303	ELECT 100U M 6.3V	1
R324	401 012 7009	CARBON 10K JA 1/4W	1	C513	403 001 1906	CERAMIC 0.01U M 16V	1
R325	401 025 3807	CARBON 180 JA 1/6W	1	C514	403 040 8508	ELECT 33U M 10V	1
R326	401 025 3807	CARBON 180 JA 1/6W	1	C515	403 058 1300	POLYESTER 1500P K 50V	1
R390	401 024 7400	CARBON 10K JA 1/6W	1	C516	403 038 2303	ELECT 100U M 6.3V	1
R391	401 024 7400	CARBON 10K JA 1/6W	1	R500	401 018 1605	CARBON 33 JA 1/4W	1
<b>ASSY,PCB,EDGE LIGHT</b>				R501	401 026 3707	CARBON 33 JA 1/6W	1
42	620 195 7464	Assy,PCB,Edge Light	1	R502	401 024 7707	CARBON 100K JA 1/6W	1
	620 188 0861	Lamp (16V, 67mA)	2	R503	401 024 7707	CARBON 100K JA 1/6W	1
PC1	620 197 8544	Wire,Jumper,140-2	1	R504	401 024 7707	CARBON 100K JA 1/6W	1
<b>ASSY,PCB,FL LED DISPLAY</b>				R505	401 024 7707	CARBON 100K JA 1/6W	1
43	620 195 7471	Assy,PCB,FL LED Display	1	R506	401 025 4606	CARBON 18K JA 1/6W	1
	620 186 6261	Digitron BG-618GK	2	R507	401 025 4606	CARBON 18K JA 1/6W	1
	620 195 5361	Mount-E,Left	1	R508	401 024 7707	CARBON 100K JA 1/6W	1
	620 195 5378	Mount-E,Right	1	R509	401 024 7707	CARBON 100K JA 1/6W	1
	620 195 3558	Reflector	1	R510	401 012 8105	CARBON 100K JA 1/4W	1
	620 062 1007	Tape Double Face 5	1	R511	401 024 7707	CARBON 100K JA 1/6W	1
PC500	620 197 8520	Wire,Jumper,140-8	1	R512	401 024 7400	CARBON 10K JA 1/6W	1
PC501	620 197 8537	Wire,Jumper,220-8	1	R513	401 024 7400	CARBON 10K JA 1/6W	1
PC502	620 197 8506	Wire,Jumper,330-3	1	R514	401 024 7707	CARBON 100K JA 1/6W	1
PC503	620 197 8513	Wire,Jumper,300-3	1	R515	401 024 7707	CARBON 100K JA 1/6W	1
P1	620 197 2078	Connector-P TKC-B10P-G1	1	R516	401 012 7009	CARBON 10K JA 1/4W	1
P2	620 197 2078	Connector-P TKC-B10P-G1	1	R517	401 024 7400	CARBON 10K JA 1/6W	1
P3	620 197 2085	Connector-P TKC-B08P-G1	1	R518	401 024 7400	CARBON 10K JA 1/6W	1
P4	620 197 2061	Connector-P TKC-B06P-G1	1	R519	401 024 7400	CARBON 10K JA 1/6W	1
P5	620 197 2085	Connector-P TKC-B08P-G1	1	R520	401 027 0309	CARBON 47K JA 1/6W	1
RB500	620 004 5704	Resistor 13X100K	1	R521	401 027 0309	CARBON 47K JA 1/6W	1
RB501	620 004 5704	Resistor 13X100K	1	R522	401 027 0309	CARBON 47K JA 1/6W	1
RB502	620 004 5698	Resistor 7X100K	1	R523	401 027 0309	CARBON 47K JA 1/6W	1
RB503	620 004 5698	Resistor 7X100K	1	R524	401 018 1605	CARBON 33 JA 1/4W	1
RB504	620 004 5605	Resistor 8X100K J	1	R525	401 024 7707	CARBON 100K JA 1/6W	1
				R526	401 024 7707	CARBON 100K JA 1/6W	1
				R527	401 025 4606	CARBON 18K JA 1/6W	1

## P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R528	401 012 8105	CARBON 100K JA 1/4W	1
R529	401 021 1906	CARBON 560 JA 1/4W	1
R530	401 021 1906	CARBON 560 JA 1/4W	1
R531	401 021 1906	CARBON 560 JA 1/4W	1
R532	401 021 1906	CARBON 560 JA 1/4W	1
R533	401 021 1906	CARBON 560 JA 1/4W	1
R534	401 012 4503	CARBON 100 JA 1/4W	1

### ASSY,PCB,TACT SWITCH

44	620 195 7495	Assy,PCB,Tact Switch	1
	620 016 7796	Tact Switch	39
PC2	620 021 0997	Connector 8P Assy	1
PC3	620 021 1048	Connector 6P Assy	1
PC4	620 017 9355	Connector 5P Assy	1
VR1	620 196 7159	VR,Rotary,2X10KB	1

Ref. No.	Part No.	Description	Q'ty
<b>ASSY,PCB,FUSE</b>			
45	620 202 4790	Assy,PCB,Fuse	1
	620 017 2721	Fuse Clip	2
	620 022 2587	EC Terminal 1P	2
	620 031 4763	Wire Wrap Terminal	4
F3	△ 423 006 4702	FUSE 250V T2.5A	1

### NOTES:

- Parts order must contain Model Number, Part Number and Description.
- Ordering quantity of screws and resistors must be multiple of 10 pcs.

## IC & TRANSISTOR DC VOLTAGES

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC100	LC7520	0V	0V	0.2V	0.2V	0.2V	0.2V	0.2V	0.2V	0.2V	16.0V	8.8V	8.8V	5.7V	8.6V	14.0V	0V	0V	0V	-17.0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0.2V	0.2V	0.2V	0.2V	0V	0V	0V	-	-	-	-	-	-	-	-	-	-	-	-

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC101	LC7520	0V	0V	0V	0V	0V	0V	0V	0V	0V	16.1V	16.1V	8.9V	5.7V	8.7V	15.1V	0V	0V	0V	-17.0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	-	-	-	-	-	-	-	-	-	-	-	-

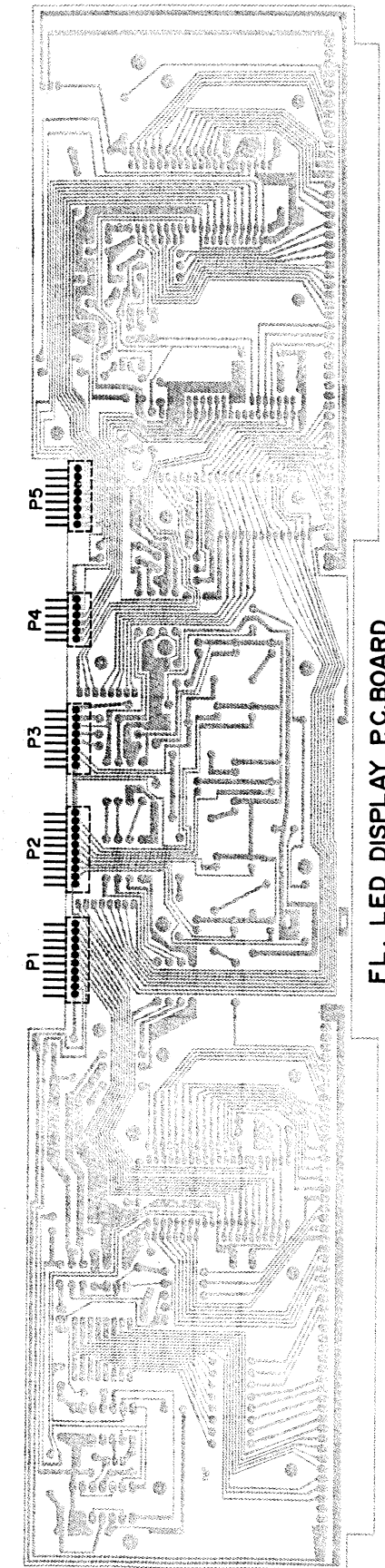
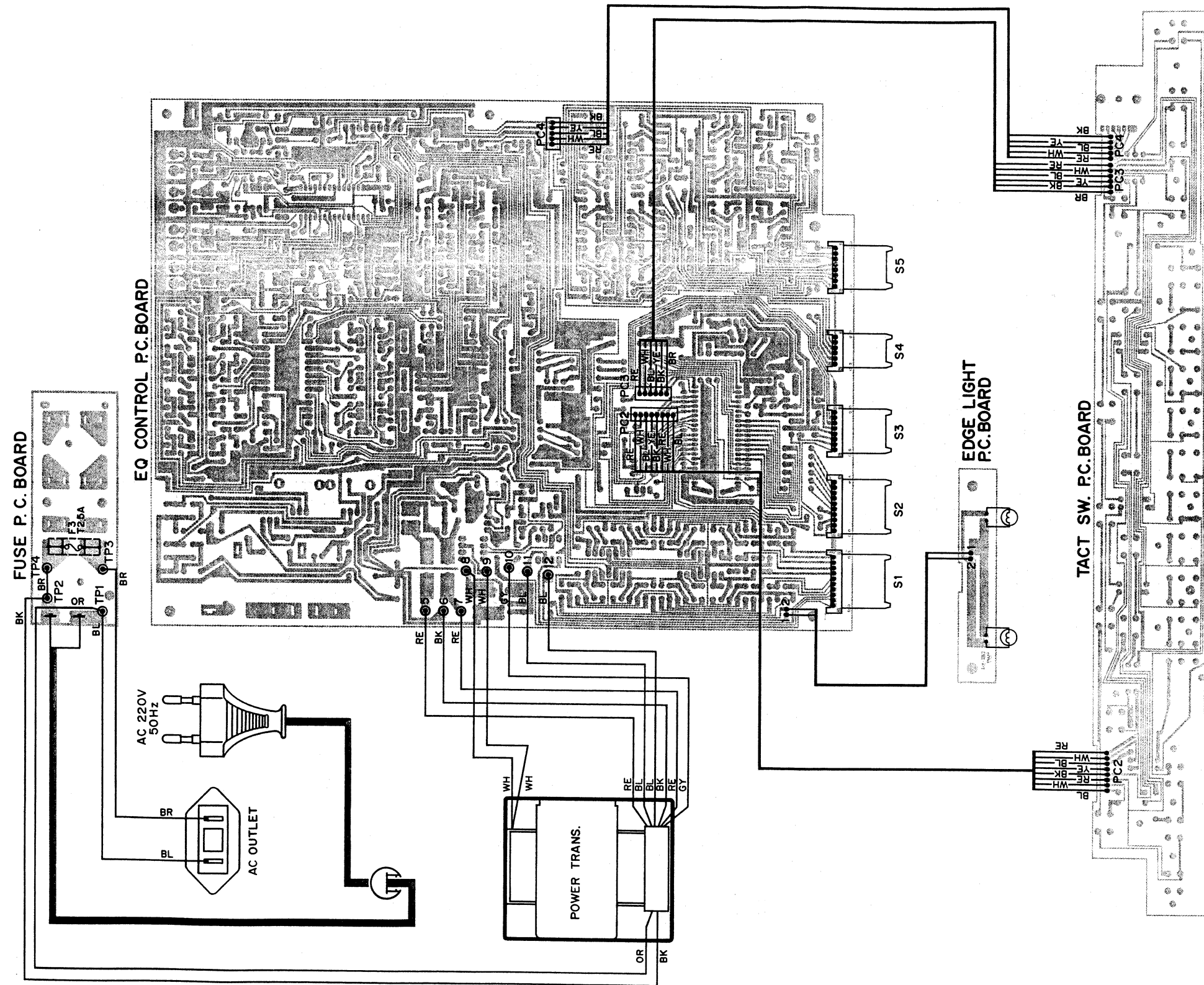
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC115	LC7822	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	-16.0V	0V	0V	0V	0V	0V	14.7V	15.7V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0.4V	0V	0V	0V	0V	0V	0V	—	—	—	—	—	—	—	—	—	—

IC PIN NUMBERS DC VOLTAGES															
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IC102 ~ 111	LA6462D	0V	0V	0V	-16.1V	0V	0V	0V	15.9V	-	-	-	-	-	-
IC112	LA6458DS	0V	0V	0V	-16.1V	0V	0V	0V	15.9V	-	-	-	-	-	-
IC113	LA6462D	0V	0V	0V	-15.6V	0V	0V	0V	15.4V	-	-	-	-	-	-
IC200	BA14741	0V	0V	0V	7.8V	0V	0V	-0.1V	-0.1V	0V	0V	-7.5V	0V	0V	-0.1V
IC201	BA14741	0V	0V	0V	7.8V	0V	0V	0V	0.4V	0V	0.4V	-7.5V	0V	0V	0V
IC202	BA14741	0V	0V	0V	7.8V	0V	0V	0V	0V	0V	0V	-7.6V	0V	0V	0V
IC203	BA14741	0V	0V	0V	7.8V	0V	0V	0V	0V	0V	0V	-7.5V	0V	0V	0V
IC204	LA6458DS	0V	0V	0V	-7.6V	0V	0V	0V	7.8V	-	-	-	-	-	-
IC205	BA14741	0V	0V	0V	7.8V	0V	0V	0V	0V	0V	0V	-7.5V	0.2V	0.2V	0V
IC206	LA6458SS	15.6V	0V	0V	0V	-15.7V	0V	0V	-0.3V	15.6V	-	-	-	-	-

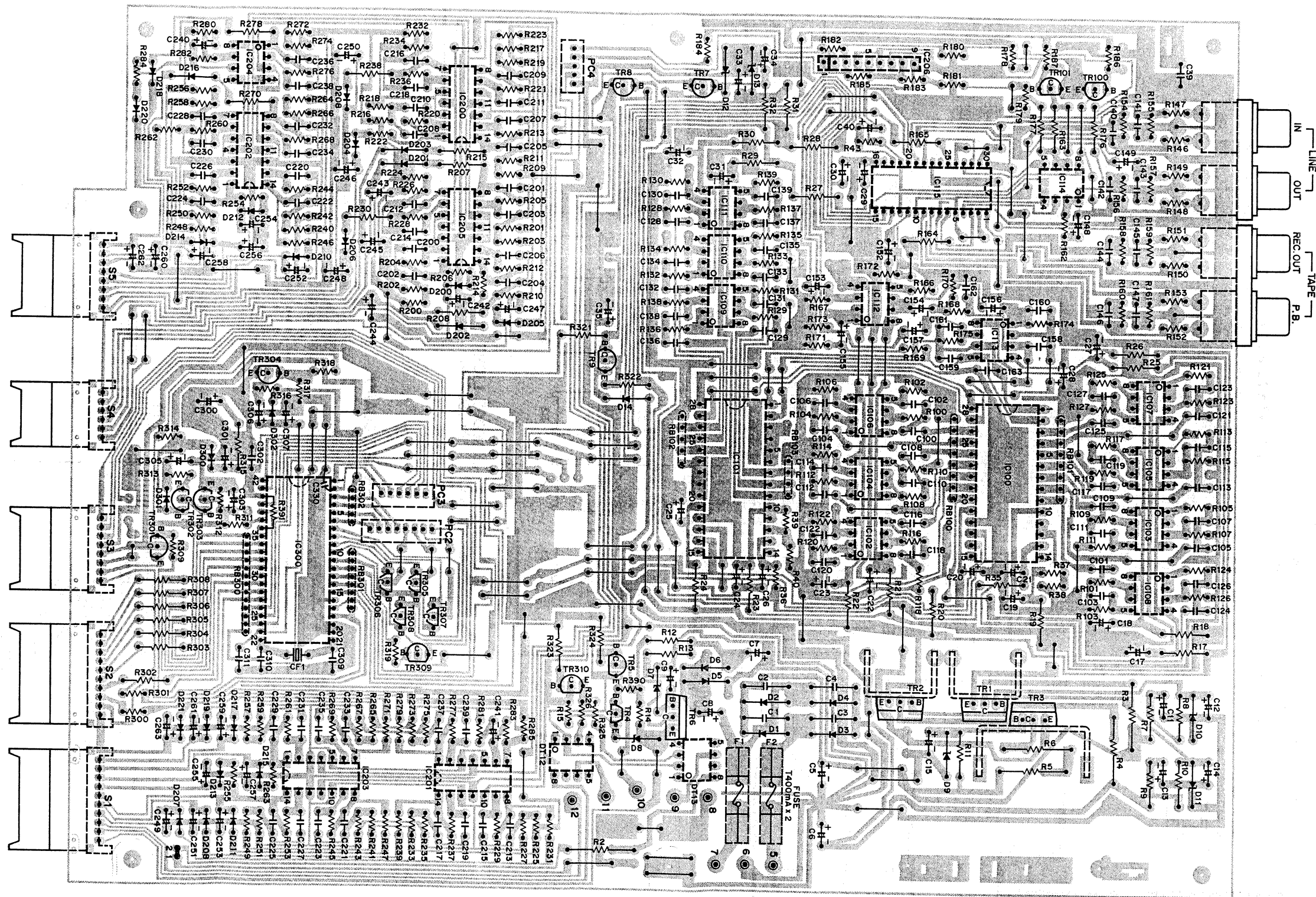
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC300	LC6520C-4134	5.0V	5.0V	5.0V	5.0V	5.0V	5.0V	4.2V	4.3V	4.3V	4.2V	0V	0V	0V	5.7V	0V	0V	0V	0V	0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		2.1V	1.5V	4.8V	0V	0V	0V	5.7V	5.7V	5.7V	5.7V	5.7V	0V	0V	0V	5.7V	4.9V	5.0V	4.9V	4.9V	5.0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		4.9V	5.0V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
TR1	2SD1913-S	17.5V	21.9V	16.9V	TR3	2SD1913-S	6.3V	21.7V	5.7V	TR6	2SB1274-S	-27.5V	-50.3V	-27.0V
TR2	2SB1274-S	-17.7V	-23.0V	-17.1V	TR5	2SA1317-T	5.0V	5.7V	5.7V					

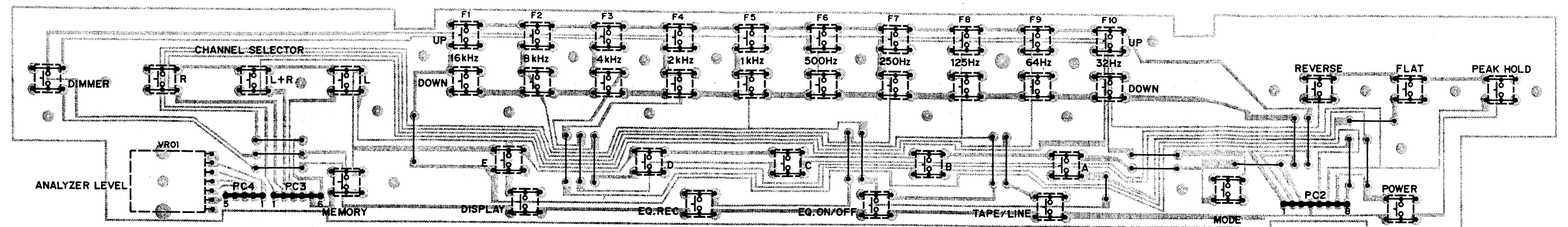
# WIRING DIAGRAM



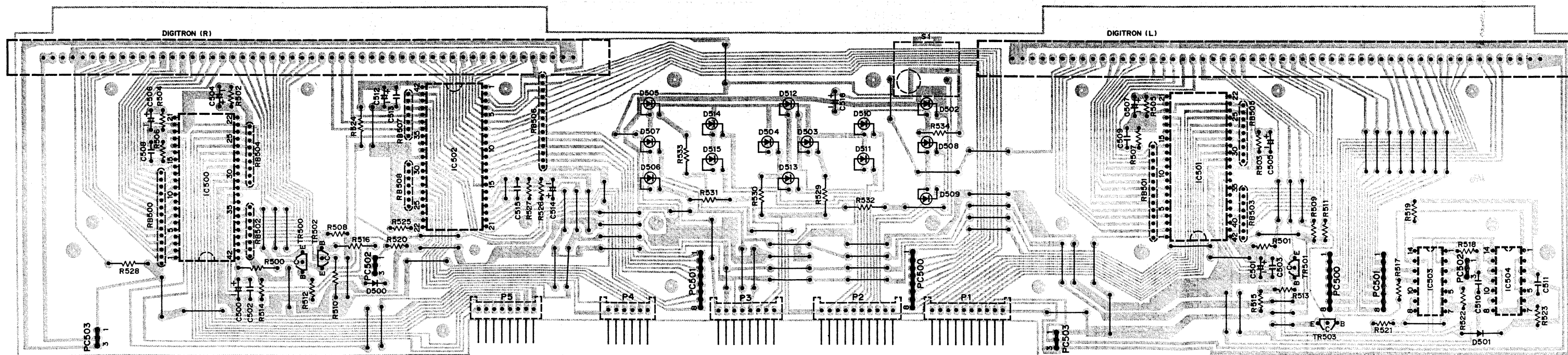
EQ. CONTROL P.C.BOARD  
(BOTTOM VIEW)



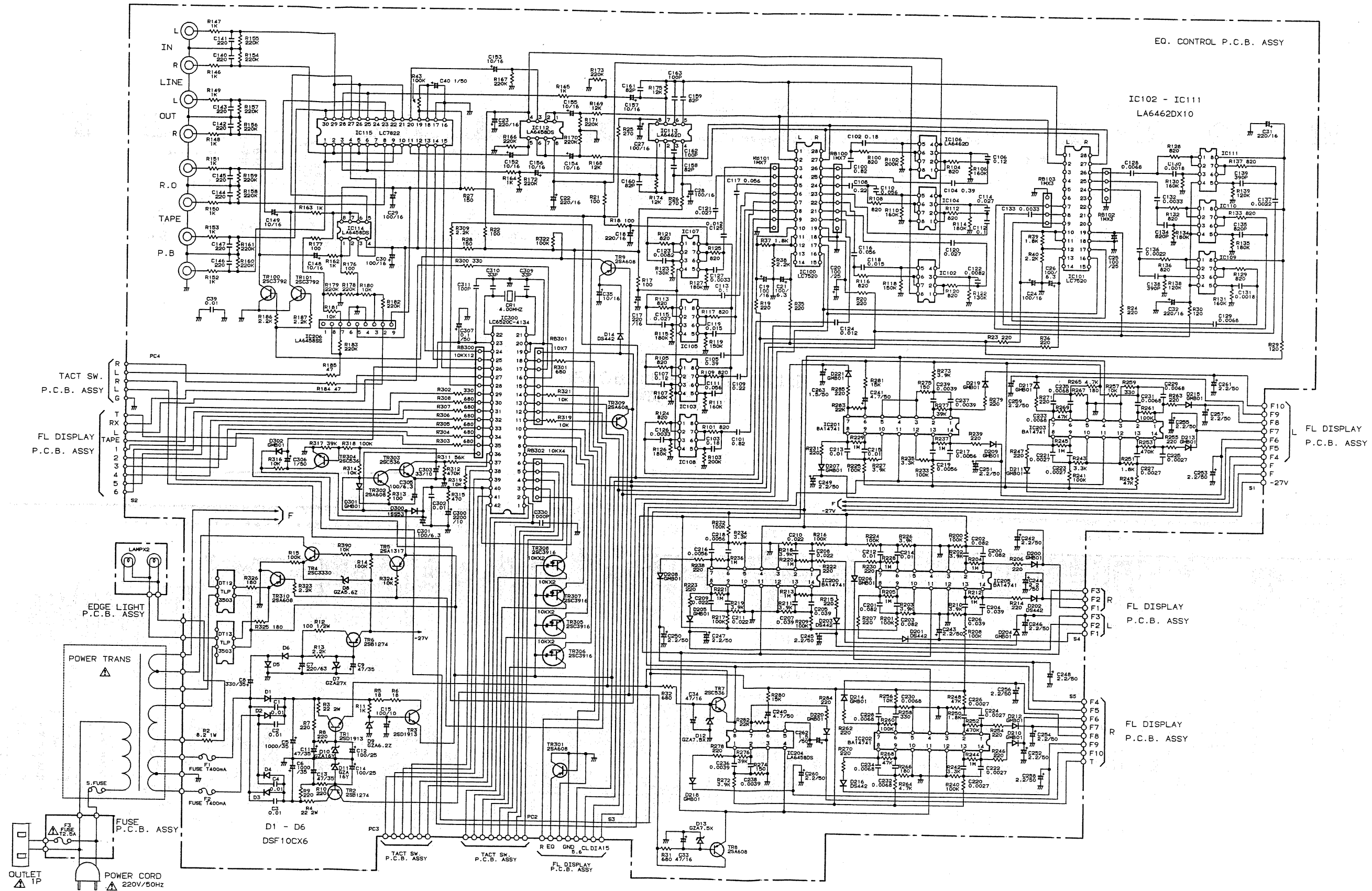
# TACT SWITCH P.C.BOARD (BOTTOM VIEW)



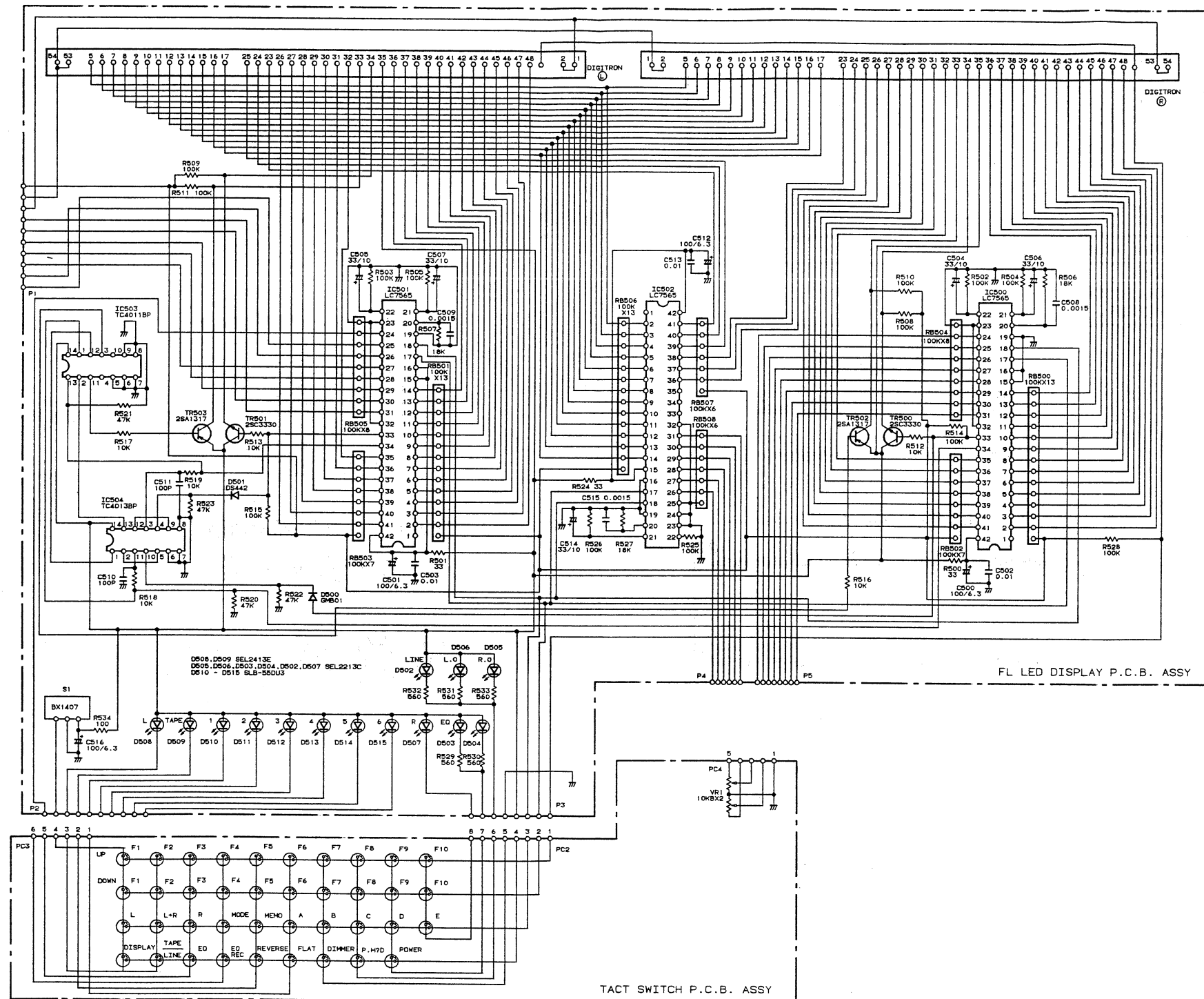
# FL LED DISPLAY P.C.BOARD (BOTTOM VIEW)



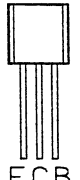
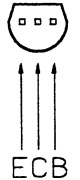
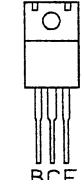

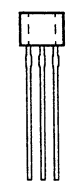
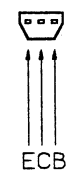
# SCHEMATIC DIAGRAM (1)



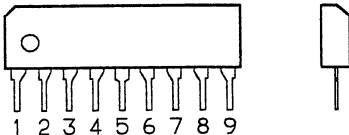
# SCHEMATIC DIAGRAM (2)



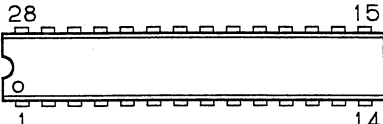
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SC3792 2SC536			2SB1274 2SD1913		
2SA1317 2SC3330 2SC3916					
TERMINAL NAME					
B → BASE C → COLLECTOR E → EMITTER					

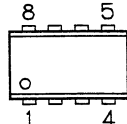
LA6458SS FRONT/SIDE VIEWS



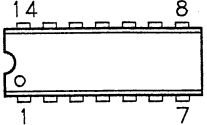
LC7822 TOP VIEW



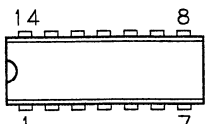
LA6458DS TOP VIEW  
LA6462D TOP VIEW



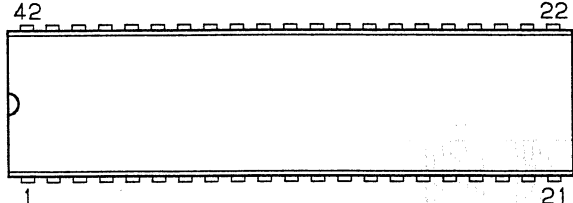
LC4011B TOP VIEW  
LC4913 TOP VIEW



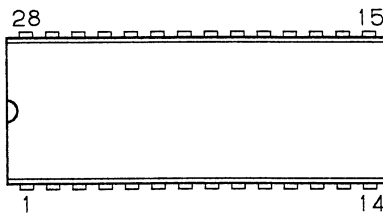
BA14741 TOP VIEW



LC7565 TOP VIEW

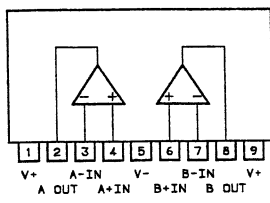


LC7520 TOP VIEW

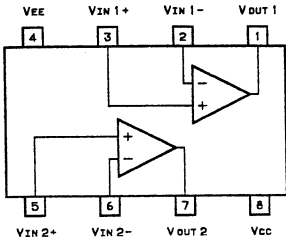


IC BLOCK DIAGRAM

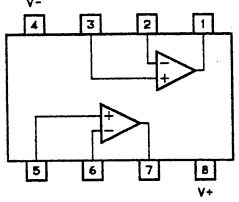
LA6458SS BLOCK DIAGRAM



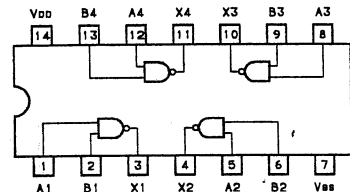
LA6458DS BLOCK DIAGRAM



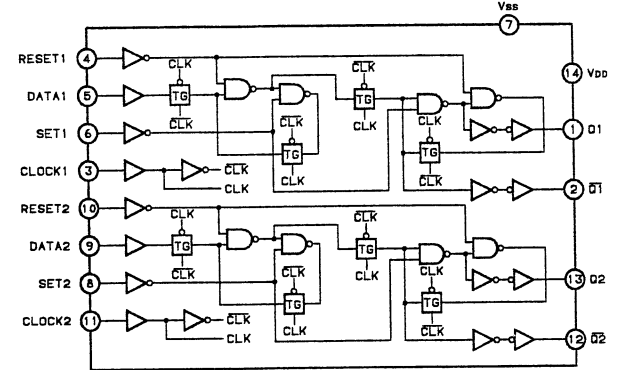
LA6462D BLOCK DIAGRAM



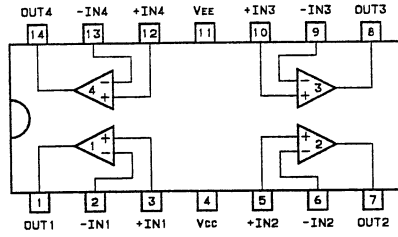
LC4011B BLOCK DIAGRAM



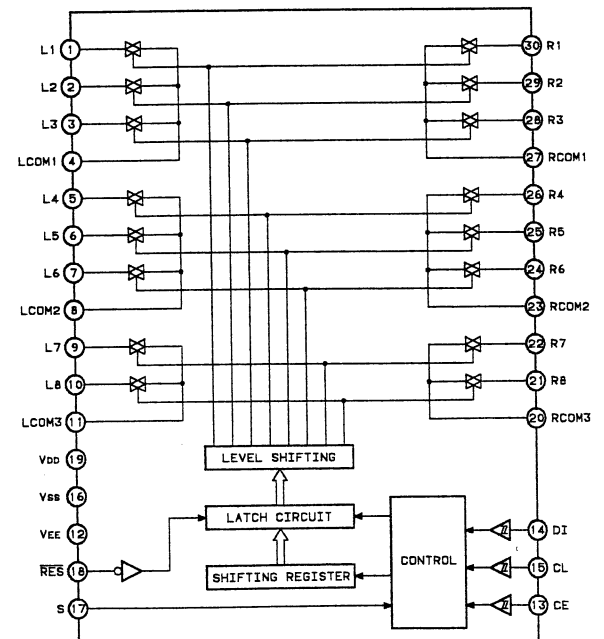
LC4913 BLOCK DIAGRAM



BA14741 BLOCK DIAGRAM



LC7822 BLOCK DIAGRAM



## LC7565 BLOCK DIAGRAM

